

Appl. No. 10/758,066
Docket No. 9160Q
Amdt. dated September 14, 2006
Reply to Office Action mailed on August 18, 2006
Customer No. 27752

AMENDMENTS TO THE CLAIMS

This listing of claims will replace all prior versions, and listings, of claims in the application:

Listing of Claims:

1. (Previously presented) A disposable absorbent article comprising:
 - (a) a topsheet;
 - (b) a backsheet; and
 - (c) an absorbent core disposed between the topsheet and the backsheet, wherein the absorbent core comprises:
 - (i) a storage layer; and
 - (ii) a durable, hydrophilic fluid pervious core wrap, said core wrap surrounding at least a portion of said storage layer, said core wrap comprising:
 - a core wrap substrate; and
 - a hydrophilicity boosting composition coated on said core wrap substrate, said hydrophilicity boosting composition comprising a hydrophilicity boosting amount of nanoparticles, wherein said nanoparticles have a particle size of from about 1 to about 750 nanometers, and wherein said core wrap substrate has been treated with a high energy surface treatment.
2. (Previously presented) The disposable absorbent article according to Claim 1 wherein said core wrap substrate is selected from the group consisting of porous polymeric films, nonwoven materials, and combinations thereof.
3. (Previously presented) The disposable absorbent article according to Claim 2 wherein said core wrap substrate is a nonwoven material and wherein said nonwoven material comprises fibers selected from the group consisting of polyolefins, polyesters, cellulose and combinations thereof.

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4. (Previously presented) The disposable absorbent article according to Claim 3 wherein said nonwoven material comprises fibers selected from the group consisting of polypropylene, polyethylene, polyethylene terephthalate, rayon and combinations thereof.
5. (Previously presented) The disposable absorbent article according to Claim 1 wherein said nanoparticles are inorganic nanoparticles.
6. (Previously presented) The disposable absorbent article according to Claim 5 wherein said nanoparticles are selected from the group consisting of titanium dioxide, layered clay minerals, alumina oxide, silicates, and combinations thereof.
7. (Previously presented) The disposable absorbent article according to Claim 6 wherein said nanoparticles are selected from the group consisting of titanium dioxide, Boehmite alumina, sodium magnesium lithium fluorosilicates and combinations thereof.
8. (Previously presented) The disposable absorbent article according to Claim 1 wherein said hydrophilicity boosting composition further comprises a surfactant.
9. (Previously presented) The disposable absorbent article according to Claim 8 wherein said surfactant is a nonionic surfactant.
10. (Previously presented) The disposable absorbent article according to Claim 1 wherein said storage layer comprises material selected from the group consisting of absorbent gelling material, fluff, and mixtures thereof.
11. (Previously presented) The disposable absorbent article according to Claim 1 wherein said topsheet is substantially liquid pervious and said backsheet is substantially liquid impervious, wherein said storage layer is between said topsheet and said backsheet, and at least a portion of said core wrap is between said storage layer and said top sheet.
12. (Previously presented) The disposable absorbent article according to Claim 1 wherein said core wrap surrounds all of said storage layer.

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13. (Previously presented) The disposable absorbent article according to Claim 12 wherein said disposable absorbent article is selected from the group consisting of diapers, adult incontinence products, training pant, feminine hygiene pads, and panty liners.
14. (Cancelled)
15. (Previously presented) The disposable absorbent article according to Claim 1 wherein said high-energy surface treatment is selected from the group consisting of corona discharge treatment, plasma treatment, UV radiation, ion beam treatment, electron beam treatment and combinations thereof.
16. (Withdrawn) A process for making a disposable absorbent article comprising an absorbent core, said absorbent core comprising a storage layer and a durable hydrophilic core wrap, said core wrap surrounding at least a portion of said storage layer and said process comprising the steps of:
 - selecting a core wrap substrate from the group consisting of porous polymeric films, nonwoven materials and combinations thereof;
 - treating said core wrap substrate with a high energy surface treatment, wherein said high energy surface treatment is selected from the group consisting of: corona discharge treatment, plasma treatment, UV radiation, ion beam treatment, electron beam treatment, and combinations thereof; and
 - coating the core wrap substrate with a hydrophilicity boosting composition, said hydrophilicity boosting composition comprising a hydrophilicity boosting amount of nanoparticles, said nanoparticles having a particle size of from about 1 to about 750 nanometers,wherein the step of treating the core wrap substrate occurs prior to or concurrently with the coating of the core wrap substrate.
17. (Cancelled)

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18. (Withdrawn) The process for making a disposable absorbent article according to Claim 16 wherein said hydrophilicity boosting composition further comprises a carrier and a surfactant.
19. (Withdrawn) The process for making a disposable absorbent article according to Claim 18 wherein said nanoparticles are inorganic nanoparticles.
20. (Cancelled).